CX3360014 | 125B135QR540JCASS COEX

ConQuest® Cable in Conduit, 1 1/4 in, SDR 13.5, black (QR® 540 JCASS)



 *Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

Product Classification

Regional Availability North America

Product Type Coaxial cable-in-conduit

Product Brand ConQuest®
Product Series 540 Series

Government FundingBuild America Buy America (BABA) compliant*

General Specifications

Cable Type540 SeriesCable-In-Conduit TypeQR® in duct

Color Black

Conduit Type Non-toneable
Wall Type Smooth

Dimensions

Length 1,127.76 m | 3700 ft

Wall Thickness Designation SDR 13.5

Nominal Size 1-1/4 in

Packaging and Weights

Weight, net 528.298 kg/km | 355 lb/kft

Included Products

5510192 - 75 Ohm QR® Trunk and Distribution Cable, black PE jacket, flooded for

QR® 540 JCASS underground

COMMSCOPE°

5510192 | QR® 540 JCASS

75 Ohm QR® Trunk and Distribution Cable, black PE jacket, flooded for underground



Product Classification

Product Type Coaxial hardline cable

Product Brand QR®

General Specifications

Cable Type540 SeriesConstruction TypeWeldedJacket ColorBlack

Short Description QR 540 JCASS SM PR2171

Dimensions

Cable Length1,127.76 m | 3700 ftDiameter Over Center Conductor, nominal3.15 mm | 0.124 inDiameter Over Dielectric, nominal13.056 mm | 0.514 inDiameter Over Jacket, nominal15.494 mm | 0.61 inDiameter Over Outer Conductor, nominal13.716 mm | 0.54 inJacket Thickness, nominal0.889 mm | 0.035 inOuter Conductor Thickness, nominal0.343 mm | 0.014 in

Electrical Specifications

Capacitance 50.197 pF/m | 15.3 pF/ft

Capacitance Tolerance±1.0 pF/ftCharacteristic Impedance75 ohmCharacteristic Impedance Tolerance±2 ohm

dc Resistance Note Nominal values based on a standard condition of 20 °C (68 °F)



5510192 | QR® 540 JCASS

dc Resistance, Inner Conductor, nominal 3.346 ohms/km | 1.02 ohms/kft

dc Resistance, Loop, nominal5.282 ohms/km | 1.61 ohms/kft

dc Resistance, Outer Conductor, nominal 1.936 ohms/km | 0.59 ohms/kft

Jacket Spark Test Voltage 5000 Vac

Nominal Velocity of Propagation (NVP) 88 %

Operating Frequency Band 5-3000 MHz

Structural Return Loss 24 dB @ 1003-1218 MHz | 24 dB @ 1219-1794 MHz | 30 dB @ 5-1002

MHz

Structural Return Loss, Grade N ≥24 dB @ 1003−1218 MHz | ≥24 dB @ 1219−1794 MHz | ≥30 dB @ 5−1002

MHz

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	0.46	0.14
55.0	1.54	0.47
85.0	1.94	0.59
204.0	3.05	0.93
211.0	3.12	0.95
250.0	3.38	1.03
300.0	3.71	1.13
350.0	4.04	1.23
400.0	4.33	1.32
450.0	4.59	1.4
500.0	4.89	1.49
550.0	5.12	1.56
600.0	5.38	1.64
750.0	6.07	1.85
865.0	6.56	2
1002.0	7.12	2.17
1218.0	7.89	2.41
1500.0	9.07	2.76
1794.0	10.11	3.08
1800.0	10.13	3.09
2000.0	10.81	3.29
2200.0	11.46	3.49



5510192 | QR® 540 JCASS

2500.0	12.41	3.78
2700.0	13.03	3.97
3000.0	13.93	4.24

Material Specifications

Center Conductor Material Copper-clad aluminum

Dielectric Material Foam PE

Jacket Material PE

Outer Conductor Material Aluminum

Mechanical Specifications

Pulling Tension, maximum 99.79 kg | 220 lb

Environmental Specifications

Corrosion ProtectionMigraheal®Environmental SpaceBuried

Packaging and Weights

Packaging Type Reel

Weight, gross 178.58 kg/km | 120 lb/kft

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

